

ISM/Safety Improvement Monthly Project Review #3

Status Period: 08/01/06 – 09/29/06

<http://www.bnl.gov/qmo/ISM.asp>

ISM/Safety Improvement Project Summary

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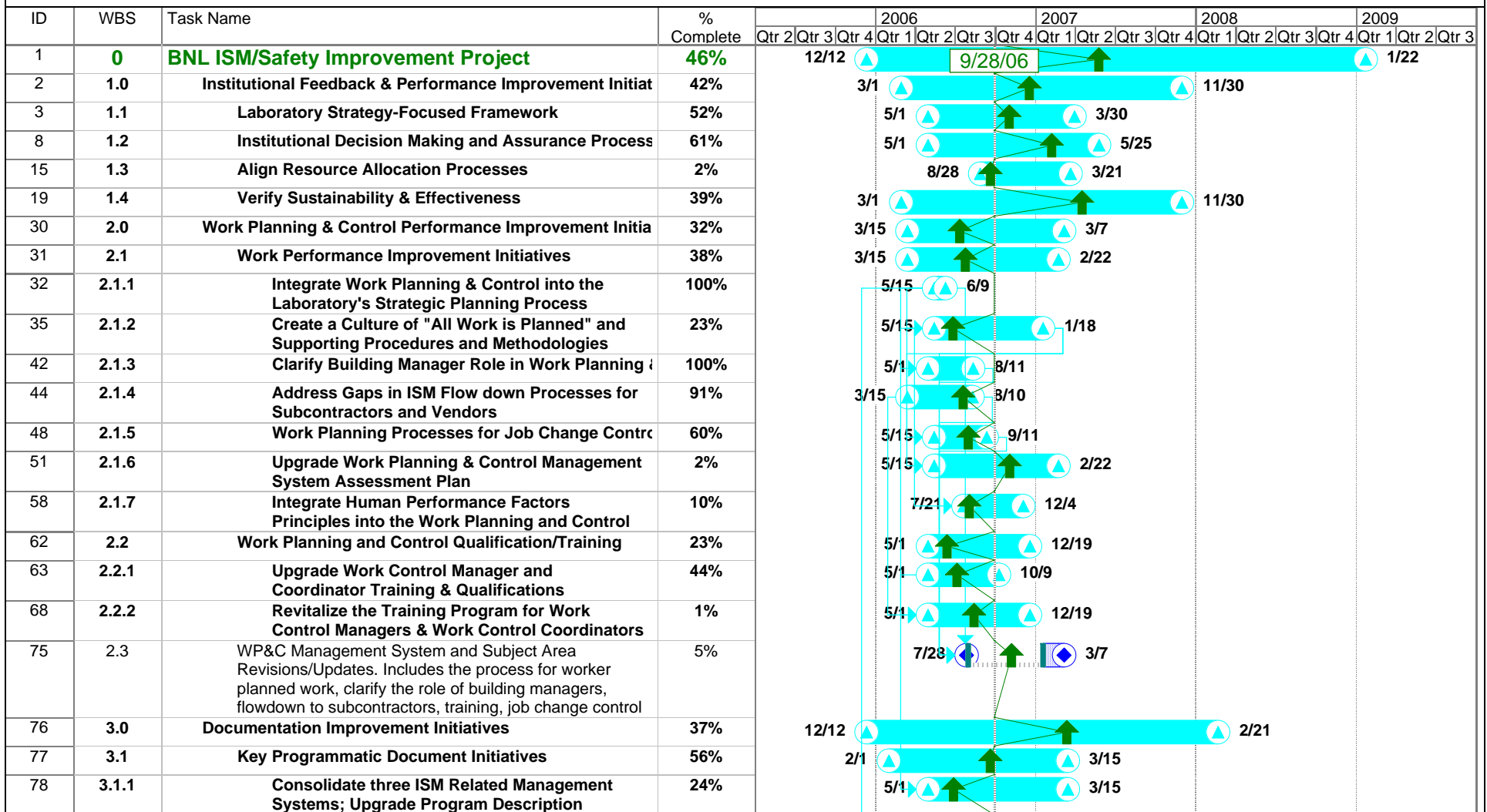
As of September 28, 2006, the ISM/Safety Improvement Project is 46% complete. The Work Planning and Control Performance Improvement Initiatives and Arc-Flash incident activities are progressing slowly and remain slightly behind on the baseline schedule. Efforts to get these activities back in line with the baseline schedule are underway.

The Gantt chart on the following three pages illustrates project progress in relation to the review date of September 28th. The green arrows show where we are vs. where we should be in relation to the review date. Green arrows to the right indicate that the activity/deliverable is ahead of schedule and/or progressing as planned. Arrows to the left indicate that the activity/deliverable is behind schedule and additional effort may be required to get the activity/deliverable back on track.

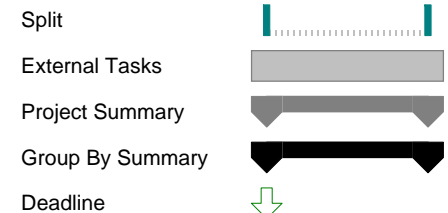
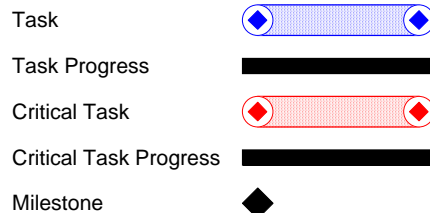
A. August and September Completed Activities:

1. WBS 1.4.2 Update/Revision to the ISM/Safety Improvement Project Plan to include activities identified from the comprehensive gap analysis performed against key programs and/or lessons learned/best practices from sister Laboratories and DOE evaluations.
2. WBS 1.4.5 Review and refine Roles and Practices of Institutional Councils. This includes the re-institution of the Laboratory Management Council.
3. WBS 2.1.3 Clarify Building Manager Role in Work Planning and Control
4. WBS 3.1.3 Correct specific procedure deficiencies from THE Evaluation of ISM Assessment
5. WBS 3.1.5.1 Revise SBMS Document guidelines to incorporate a requirement that all roles and responsibilities in any management system documents to be summarized in the management system description.
6. WBS 5.1.3.1 Review the status of ground fault indicating relays to verify that they are appropriately set and connected to an alarm monitoring system.
7. WBS 7.1.1.1 Revise the Radiological Protection Plan (RPP) scope statement to clarify the requirements of 10CFR835 for off-site radiological work.
8. WBS 7.1.1.2 Communicate RPP requirements to applicable Managers & Staff
9. WBS 7.1.5.3 Review/update existing Facilities & Operations Directorate conduct of operations program to strengthen practices and assure compliance.
10. WBS 7.1.7.2 Commence tracking and trending feedback received on each published lessons learned communication.

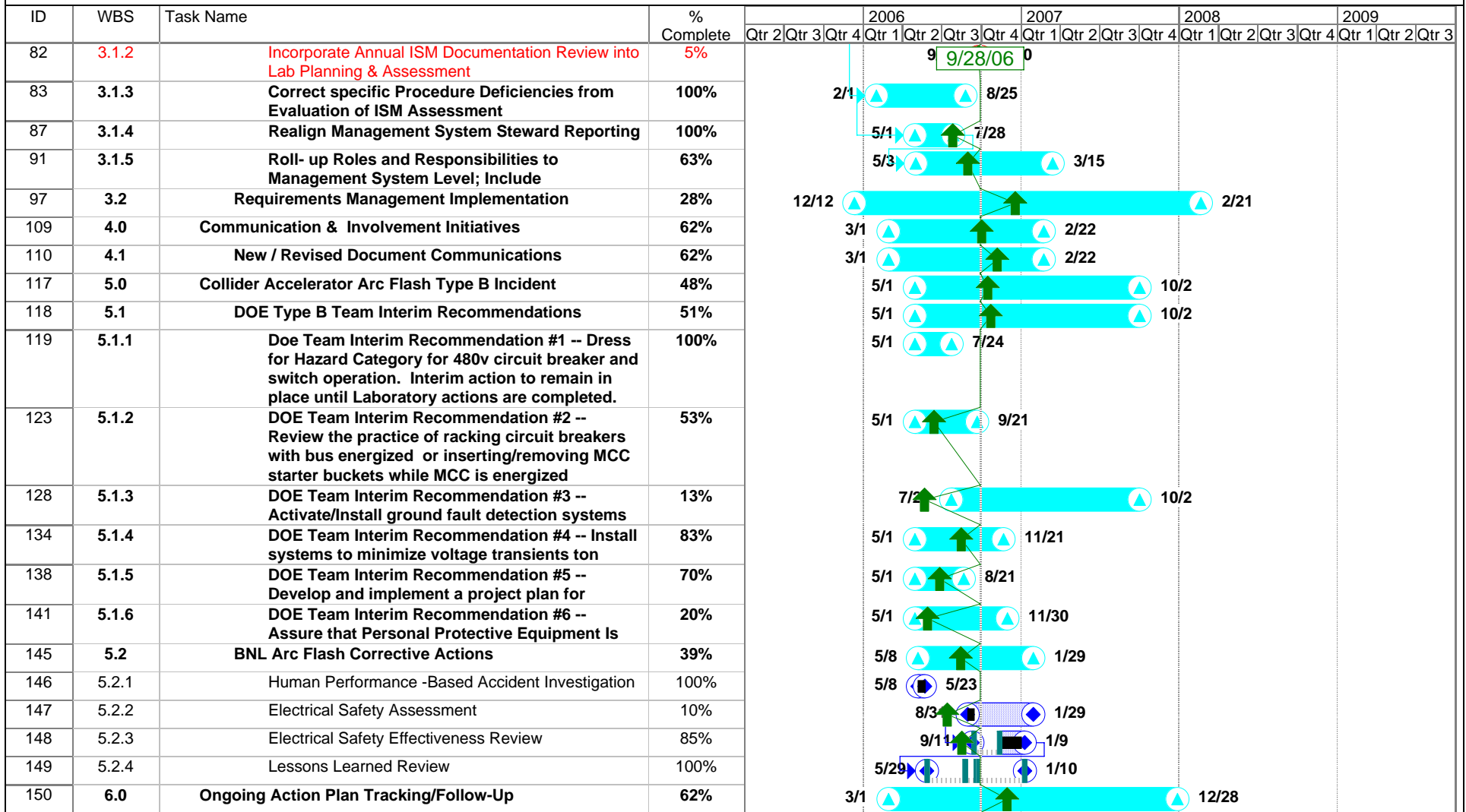
BNL ISM/Safety Improvement Project Plan (ATS# 2944)



Project: Safety Improvement Schedule
Date: Thu 9/28/06



BNL ISM/Safety Improvement Project Plan (ATS# 2944)



| | | | | | | |
|---|------------------------|--|-------------------------|--|------------------|--|
| Project: Safety Improvement Schedule Date: Thu 9/28/06 | Task | | Summary | | Split | |
| | Task Progress | | Rolled Up Task | | External Tasks | |
| | Critical Task | | Rolled Up Critical Task | | Project Summary | |
| | Critical Task Progress | | Rolled Up Milestone | | Group By Summary | |
| | Milestone | | Rolled Up Progress | | Deadline | |

BNL ISM/Safety Improvement Project Plan (ATS# 2944)

| ID | WBS | Task Name | % Complete | 2006 | | | | 2007 | | | | 2008 | | | | 2009 | | |
|-----|-------|--|------------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | | | Qtr 2 | Qtr 3 | Qtr 4 | Qtr 1 | Qtr 2 | Qtr 3 | Qtr 4 | Qtr 1 | Qtr 2 | Qtr 3 | Qtr 4 | Qtr 1 | Qtr 2 | Qtr 3 | Qtr 4 |
| 157 | 7.0 | Evaluation of ISM Recommendations & Improvement Initi | 56% | | | | 3/1 | ▲ | 9/28/06 | ▲ | 4/12 | | | | | | | |
| 158 | 7.1 | Evaluation of ISM Recommendations/Opportunities fo | 62% | | | | 3/1 | ▲ | | ▲ | 12/29 | | | | | | | |
| 182 | 7.2 | Worker Safety & Health Program Implementation | 35% | | | | 5/1 | ▲ | ▲ | | 4/12 | | | | | | | |
| 183 | 7.2.1 | Worker Safety & Health Rule Implementation | 39% | | | | 5/1 | ▲ | ▲ | 2/7 | | | | | | | | |
| 184 | 7.2.2 | Development of Field Validation Criterion | 25% | | | | 5/1 | ▲ | ▲ | 2/7 | | | | | | | | |
| 185 | 7.2.3 | Investigation/Causal Analysis and Corrective Actions | 50% | | | | 5/1 | ▲ | ▲ | 2/7 | | | | | | | | |
| 186 | 7.2.4 | Worker Safety & Health Elements in Place & Program Expectations Communicated | 0% | | | | | | 2/8 | ▲ | 4/12 | | | | | | | |
| 187 | 7.3 | Safety Improvement Initiatives | 71% | | | | 3/31 | ▲ | ▲ | 1/25 | | | | | | | | |
| 188 | 7.3.1 | Excellence in ESS&H Strategic Focus Area | 90% | | | | 5/9 | ▲ | ▲ | 11/6 | | | | | | | | |
| 189 | 7.3.2 | Safety Observation Training for Managers and Supe | 80% | | | | 5/9 | ▲ | ▲ | 1/8 | | | | | | | | |
| 190 | 7.3.3 | OHSAS Registration Phase 3 Completion | 75% | | | | 3/31 | ▲ | ▲ | 1/25 | | | | | | | | |
| 191 | 7.3.4 | Employee Concerns Program Evaluation | 0% | | | | | | 10/2 | ▲ | 10/13 | | | | | | | |
| 192 | 7.3.5 | Executive Management Training Program | 35% | | | | 8/1 | ▲ | ▲ | 10/2 | | | | | | | | |
| 193 | 7.3.6 | Electronic Delivery of Experimental Safety Review F | 0% | | | | | | 10/2 | ▲ | 11/10 | | | | | | | |
| 194 | 7.3.7 | Effectiveness of Off-Site Integrated Safety Managerr | 0% | | | | | | 10/2 | ▲ | 10/25 | | | | | | | |
| 195 | 7.3.8 | Institutional Safety Committees Reporting Structure I | 75% | | | | 8/18 | ▲ | ▲ | 10/11 | | | | | | | | |
| 196 | 7.3.9 | Feedback & Improvement, and WP&C Follow-Up Re | 25% | | | | | | 9/15 | ▲ | 10/2 | | | | | | | |
| 197 | 8.0 | Project Management and Support | 39% | | | | 5/1 | ▲ | ▲ | 1/22 | | | | | | | | |

Project: Safety Improvement Schedule
Date: Thu 9/28/06

| | |
|------------------------|--|
| Task | |
| Task Progress | |
| Critical Task | |
| Critical Task Progress | |
| Milestone | |

| | |
|-------------------------|--|
| Summary | |
| Rolled Up Task | |
| Rolled Up Critical Task | |
| Rolled Up Milestone | |
| Rolled Up Progress | |

| | |
|------------------|--|
| Split | |
| External Tasks | |
| Project Summary | |
| Group By Summary | |
| Deadline | |

Monthly ISM Performance Improvement Project Status Report #3 (September 2006)

| | | | |
|---|----------------|---|--|
| Project Manager: Steven Coleman | | Project Status Period: August 1 – September 29, 2006 | |
| Project No. ATS 2944 | | Account No. 19570 | |
| Project Sponsor: Mike Bebon, Deputy Director for Operations | | % Complete: 33% | Previous Month % Complete 46% |
| | | Date: 9/29/2006 | Report No. 4 |
| Budget/Cost Status | FY 2006 | FY 2007 Estimate (E) | This Period |
| Total Estimated Costs | \$420K | \$550K (E) | Current Month Actual Costs \$199K |
| Costs to Date | \$420K | N/A | |
| Balance Available | \$0K | N/A | |
| Project Progress: WBS 1.0 – Institutional Feedback and Improvement Initiatives <ol style="list-style-type: none"> 1. WBS 1.1 → Laboratory Strategy focused framework. Solid progress was made in defining the strategic focus areas and developing the Annual Lab Plan. <ol style="list-style-type: none"> a. The first draft of the SFAs goals and objectives was completed and forwarded to appropriate Managers for review and comment. Budget office completed its review and first cut at budget projections and refining document information. The Policy and strategic planning office developed a draft Annual Laboratory Plan (ALP). The plan was forwarded to the Policy Council for review and approval. b. A draft Integrated Planning and Assessment Calendar is approximately 80% complete. The calendar will be published with the completion of the Annual Laboratory Plan. c. Re-alignment of the quarterly Institutional level reporting is progressing on schedule. Performance Soft Program view was procured and presented to Senior Management for use at BNL. d. Human Resources Training Department has begun working on defining and implementing a management symposia. Alternate approaches are not yet complete. Additionally, in support of this activity the Deputy Director for Operations commissioned an Executive Management Training Program for Operations and Support Department/Division Managers. 2. WBS 1.2 → Institutional Decision Making and Assurance Process. . <ol style="list-style-type: none"> a. Contractor assurance system description still being reviewed by DOE-BHSO. 3. WBS 1.4 → Verify Sustainability and Effectiveness. – New activities required to address programmatic gaps (i.e. personnel that perform assurance activities have the knowledge skills, and abilities) has been incorporated into the ISM/Safety Improvement Project Plan. <ol style="list-style-type: none"> a. A review of roles and practices of institutional councils has been completed. The Director reinstated the management council. The Lab Director AND Deputy Directors will collectively develop the management council, policy council and strategic focus area agendas to assure meeting objectives are achieved. b. The Policy Council charge was re-written to clarify and focus activities on management of institutional strategy and risks. c. Strategic focus area councils have been defined in the committee handbook. | | | |

Monthly ISM Performance Improvement Project Status Report #3 (September 2006)

WBS 2.0 – Work Planning and Control Performance Improvement Initiative

1. **WBS 2.1.4 → ISM Flowdown Contractors and Suppliers** – Presented the draft changes to the BNL administration council for comments and recommended improvements.
2. **WBS 2.1.7 → Human Performance Initiatives into WP&C** – WP&C Management Steward met with Fischer Technologies and developed a set of human performance awareness questions to be included on all work orders through the MAXIMO system. BNL procured a contract for MAXIMO upgrades.

WBS 3.0 – Documentation Improvement Initiatives

1. **WBS 3.2.1 → Requirements Verification** – Progressing as scheduled.

WBS 4.0 – Communication and Involvement Initiative

1. **WBS 4.1.3 → Operations Forum Evaluation/Implementation** – The forum chair and co-chair have been selected. The forum chair met with the Pacific Northwest Chair to gain a better understanding of the operations forum.
2. **WBS 4.1.6 → Human Performance Strategy Development** – In response to the Arc-Flash incident at collider-accelerator. In an effort to address those observations in human performance improvement, BNL met with Rob Fischer of Fisher Improvement Technologies to develop an implementation strategy for BNL.

WBS 5.0 – Collider Accelerator Arc Flash Type B Incident

- a. The DOE Type B Arc-Flash report was issued. Causal analyses of causes are in progress. Results of the causal analyses will be used to develop the corrective action plan. Corrective actions will be included the ISM/Safety improvement plan and tracked to closure under ATS 2944.

WBS 6.0 – Ongoing Action Plan Tracking and Follow Up

1. **Industrial Hygiene Action Plan** – The ESH&Q ALD is currently meeting with BNL Senior Managers to discuss risks and path forward for the IH Monitoring Program.
2. **Inadequate Control of Procedures** – Workshops on the revised SBMS Documents and Internal Controlled Procedures were conducted with Management System Stewards, Point of Contact, and Subject Matter Experts.

WBS 7.0 – Evaluation of ISM and Safety Improvement Initiatives

1. **WBS 7.1.6 → Nuclear Safety Authorization Readiness --** An audit of nuclear facility quantity items is in progress. This audit consist of reviewing files on items in the BNL community that have an inventory greater than Hazard Category 3, but are exempted from the requirements for a DSA by some means. The basis for the current status of the material, including letters from the DOE, documentation of proper packaging in Type B containers and their proper storage, sealed source status, and other pertinent documentation.
 - a. Contract was put in place with National Resource Management (NRM) to review and revise the Natural Phenomena Hazards

Monthly ISM Performance Improvement Project Status Report #3 (September 2006)

Document. The revised document is scheduled to be completed by November 30, 2006.

2. **WBS 7.2 Worker Safety & Health Program Implementation** – Gap analyses for 18 functional areas (i.e., Biological safety, Fire safety, industrial hygiene, pressure vessel, etc) were completed.
3. **WBS 7.3.3 – OHSAS Registration Phase 3** – Eighty-five percent of Job Risk Assessments have been completed for Phase 3 Organizations (Life sciences, EENS, and other support organizations that report to the Directors office).

Risk Assessment/Emerging Risk:

1. Work Planning and Control initiatives are still progressing slowly,
2. Industrial Hygiene Baseline Monitoring is a concern, and could to the upcoming DOE ES&H Evaluation at BNL, and compliance to 10 CFR 851, Worker Safety and Health rule requirements. Several action items (ATS 2823) are contingent upon the service delivery model and remain overdue.

Corrective Action(s)

1. Met with the Work Planning and Control Management System point of contact to discuss WP&C path forward. Additional resources will be assigned to get this activity back on track. Contract has been put in place to upgrade the MAXIMO system.
2. The ESH&Q, ALD and Safety and Health Division Manager are reviewing delivery model alternatives and plan to meet with the BNL Policy Council for their approval on the delivery model and required resources needed to support the IH Service Delivery Program. Final decision is expected in the 4th Quarter of FY 06. A meeting will be held with IH action item owners to discuss the status of these action items, and to attain realistic target completion dates.

Change Control/Status of Changes:

1. WBS 1.4.9 Establish and implement a process to verify personnel responsible for managing and performing assurance activities.
2. WBS 1.4.10 Establish minimum requirements for personnel responsible for managing and performing assurance activities (i.e. personnel possess appropriate knowledge, skills and abilities).
3. WBS 7.3.4 Employee Concerns Program Evaluation.
4. WBS 7.3.5 Executive Management Training Program.
5. WBS 7.3.6 Electronic Delivery of Experimental Safety Review Forms Evaluation.
6. WBS 7.3.7 Effectiveness of Off-Site Integrated Safety Management.
7. WBS 7.3.8 Institutional Safety Committees Reporting Structure Review.
8. WBS 7.3.9 Feedback and Improvement, and Work Planning and Control Follow-Up Review.

Lessons Learned:

1. In an effort to gain efficiency in monthly reporting a project reporting template should be developed and used by responsible action owners. This would provide consistency in reporting monthly progress and reduce time and effort needed to decipher status reporting of activities and their percent complete. In addition, a committee of diverse BNL personnel will be used to review and accept project information.

BNL ISM/Safety Improvement Project Plan (ATS# 2944)

| ID | WBS | Task Name | % Complete | Actual Start | Baseline Start | Actual Finish | Baseline Finish |
|----|------------|--|------------|--------------|----------------|---------------|-----------------|
| 1 | 0 | BNL ISM/Safety Improvement Project | 46% | Mon 12/12/05 | Mon 5/1/06 | NA | Tue 8/19/08 |
| 2 | 1.0 | Institutional Feedback & Performance Improvement Initiatives | 42% | Wed 3/1/06 | Mon 5/1/06 | NA | Fri 11/2/07 |
| 3 | 1.1 | Laboratory Strategy-Focused Framework | 52% | Mon 5/1/06 | Mon 5/1/06 | NA | Wed 4/25/07 |
| 4 | 1.1.1 | Complete initial SFA Planning and Performance Management Documents -- Start and Kickoff Parallel Task/Activities | 75% | Mon 5/1/06 | Mon 5/1/06 | NA | Wed 11/15/06 |
| 5 | 1.1.2 | Realign Quarterly Institutional Level Reporting Along SFA Framework | 75% | Wed 5/3/06 | Mon 10/2/06 | NA | Fri 12/29/06 |
| 6 | 1.1.3 | Develop and Implement Management Symposia | 10% | Tue 8/1/06 | Tue 1/2/07 | NA | Fri 5/25/07 |
| 7 | 1.1.4 | Develop, Publish, and Implement Integrated Planning and Performance Management/Assurance Calendar | 60% | Fri 6/2/06 | Fri 7/7/06 | NA | Sat 9/30/06 |
| 8 | 1.2 | Institutional Decision Making and Assurance Processes | 61% | Mon 5/1/06 | Mon 5/1/06 | NA | Wed 6/20/07 |
| 9 | 1.2.1 | Define and Develop SFA Analysis Capability | 0% | NA | Thu 4/26/07 | NA | Fri 9/28/07 |
| 10 | 1.2.2 | Establish Institutional Prioritization Framework | 5% | Wed 11/29/06 | Wed 11/29/06 | NA | Sun 12/31/06 |
| 11 | 1.2.3 | Define and Implement a Contractor Assurance Process | 99% | Mon 5/1/06 | Mon 5/1/06 | NA | Sat 9/30/06 |
| 12 | 1.2.4 | Event/Issues Management Processes | 70% | Mon 5/1/06 | Mon 5/1/06 | NA | Sun 12/31/06 |
| 13 | 1.2.5 | Upgrade/Re-Tool the Assessment Tracking System | 99% | Mon 5/1/06 | Mon 5/1/06 | NA | Wed 2/28/07 |
| 14 | 1.2.6 | Establish Common Institutional Level Data Collection and Reporting Process and Tool | 40% | Tue 8/15/06 | Fri 12/15/06 | NA | Fri 3/30/07 |
| 15 | 1.3 | Align Resource Allocation Processes | 2% | Mon 8/28/06 | Mon 9/18/06 | NA | Wed 4/4/07 |
| 16 | 1.3.1 | Refine and Redefine Institutional Level Discretionary Allocation Processes Description | 5% | Mon 8/28/06 | Mon 9/18/06 | NA | Sun 12/31/06 |
| 17 | 1.3.2 | Define and Implement an Organizational Unit Business Planning Process | 0% | NA | Tue 1/2/07 | NA | Fri 7/27/07 |
| 18 | 1.3.3 | Integrate Decision and Budget Allocation Processes into Planning and Performance Management/Assurance Calendar | 0% | NA | Tue 1/2/07 | NA | Fri 5/25/07 |
| 19 | 1.4 | Verify Sustainability & Effectiveness | 39% | Wed 3/1/06 | Mon 5/1/06 | NA | Fri 11/2/07 |
| 20 | 1.4.1 | Complete comprehensive gap analysis against key program design input requirements and expectations | 100% | Mon 5/15/06 | Tue 6/20/06 | Wed 7/19/06 | Thu 7/20/06 |
| 21 | 1.4.2 | Update Re-Engineering Project Plan as necessary to address gaps identified under WBS Activity 1.4.1 | 100% | Mon 7/17/06 | Thu 7/20/06 | Thu 8/31/06 | Sun 7/30/06 |
| 22 | 1.4.3 | Review and update as necessary middle management and staff R2A2s and Performance Plans/Personal Goals to Reflect Strategy Execution and Assurance | 22% | Thu 6/8/06 | Mon 7/9/07 | NA | Fri 9/28/07 |
| 23 | 1.4.4 | Complete Analysis of the Adequacy of Institutional Commitment to Independent Oversight (third party review) | 100% | Wed 3/1/06 | Mon 5/1/06 | Fri 8/25/06 | Fri 8/25/06 |
| 24 | 1.4.5 | Review and Refine as Necessary Roles and Practices of Institutional Councils | 100% | Mon 6/19/06 | Mon 6/12/06 | Wed 8/30/06 | Fri 9/29/06 |
| 25 | 1.4.6 | Review Organizational Roles, Structure, and Resources and Make necessary changes to optimize effectiveness and efficiency of on-going administration of performance Management Processes | 0% | NA | Mon 4/2/07 | NA | Fri 6/29/07 |
| 26 | 1.4.7 | Review and update as necessary Senior Management R2A2s and performance plans/personal goals to reflect strategy execution and assurance | 70% | Mon 7/24/06 | Mon 8/7/06 | NA | Fri 9/29/06 |
| 27 | 1.4.8 | Conduct an effectiveness review of the performance Management Program re-engineering effort | 0% | NA | Mon 6/18/07 | NA | Fri 11/2/07 |

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| ID | WBS | Task Name | % Complete | Actual Start | Baseline Start | Actual Finish | Baseline Finish |
|----|---------|---|------------|--------------|----------------|---------------|-----------------|
| 28 | 1.4.9 | Establish and implement a process to verify personnel responsible for managing and performing assurance activities | 0% | NA | Mon 8/6/07 | NA | Fri 9/28/07 |
| 29 | 1.4.10 | Establish minimum requirements for personnel responsible for managing and performing assurance activities (address gap analysis finding "personnel possess appropriate experience, knowledge, skills and abilities"). Include in contractor assurance description | 0% | NA | Fri 10/13/06 | NA | Fri 12/8/06 |
| 30 | 2.0 | Work Planning & Control Performance Improvement Initiatives | 32% | Wed 3/15/06 | Mon 5/1/06 | NA | Mon 12/11/06 |
| 31 | 2.1 | Work Performance Improvement Initiatives | 38% | Wed 3/15/06 | Mon 5/1/06 | NA | Mon 12/11/06 |
| 32 | 2.1.1 | Integrate Work Planning & Control into the Laboratory's Strategic Planning Process | 100% | Mon 5/15/06 | Mon 5/22/06 | Fri 6/9/06 | Mon 6/19/06 |
| 33 | 2.1.1.1 | Assign a work planning and control representative to the ESS&H SFA Team | 100% | Mon 5/15/06 | Mon 5/22/06 | Fri 5/26/06 | Mon 5/29/06 |
| 34 | 2.1.1.2 | Incorporate a strong commitment to work planning & control into the SFA goals and objective for the ESS&H SFA | 100% | Mon 6/5/06 | Fri 6/9/06 | Fri 6/9/06 | Mon 6/19/06 |
| 35 | 2.1.2 | Create a Culture of "All Work is Planned" and Supporting Procedures and Methodologies | 23% | Mon 5/15/06 | Mon 5/22/06 | NA | Thu 11/2/06 |
| 36 | 2.1.2.1 | Define and implement a "Worker Planned Work" process (i.e. re-define and enhance skill of the worker determinations hazard-analysis requirements and communication of hazards) | 30% | Mon 5/15/06 | Mon 5/29/06 | NA | Fri 10/20/06 |
| 37 | 2.1.2.2 | Evaluate the quality of job risk assessments based on their impact on worker planned work and institutional risk. Revise/update JRA's as appropriate | 0% | NA | Fri 5/25/07 | NA | Fri 9/14/07 |
| 38 | 2.1.2.3 | Develop a process to fully integrate Job Risk Analyses and Facility Risk Analyses into the Work Planning & Control Process | 30% | Mon 5/15/06 | Mon 5/29/06 | NA | Fri 10/20/06 |
| 39 | 2.1.2.4 | Improve processes for hazards analysis and mitigation where multiple hazards exist and interact; e.g. multi-craft jobs | 30% | Thu 6/29/06 | Thu 7/20/06 | NA | Fri 10/20/06 |
| 40 | 2.1.2.5 | Integrate Lessons-Learned data into all Work Planning & Control processes | 10% | Tue 6/27/06 | Mon 6/26/06 | NA | Fri 10/20/06 |
| 41 | 2.1.2.6 | Develop requirements for consideration of multiple hazards and their interaction | 30% | Thu 6/29/06 | Thu 7/27/06 | NA | Fri 10/20/06 |
| 42 | 2.1.3 | Clarify Building Manager Role in Work Planning & Control | 100% | Mon 5/1/06 | Mon 5/1/06 | Fri 8/11/06 | Thu 11/2/06 |
| 43 | 2.1.3.1 | Evaluate the data collected from the Bldg Manager work notification pilot and use the results to define the role of the Bldg Manager in WP&C, specifically the required interaction between Bldg Manager & WCM. | 100% | Mon 5/1/06 | Mon 5/1/06 | Fri 8/11/06 | Wed 7/12/06 |
| 44 | 2.1.4 | Address Gaps in ISM Flow down Processes for Subcontractors and Vendors | 91% | Wed 3/15/06 | Mon 5/1/06 | NA | Thu 11/2/06 |
| 45 | 2.1.4.1 | Supplement existing ISM requirements flow-down procurement processes to include small contracts, service work, and warranty work where actual work is performed on site | 100% | Wed 3/15/06 | Mon 5/1/06 | Thu 6/8/06 | Fri 6/2/06 |
| 46 | 2.1.4.2 | Modify contract, purchase order, and other procurement terms and conditions | 100% | Mon 5/15/06 | Mon 6/5/06 | Fri 7/7/06 | Mon 6/19/06 |
| 47 | 2.1.4.3 | Integrate review and approval of web requisitions by WCMs and/or Coordinators where work is to be performed on-site. Provide training on the new process and implement/go live | 80% | Mon 5/15/06 | Tue 6/20/06 | NA | Thu 7/20/06 |
| 48 | 2.1.5 | Work Planning Processes for Job Change Control | 60% | Mon 5/15/06 | Mon 5/29/06 | NA | Thu 11/2/06 |
| 49 | 2.1.5.1 | Develop procedures for addressing "scope creep" or changes in the work after the completion of initial planning | 75% | Mon 5/15/06 | Mon 5/29/06 | NA | Wed 7/26/06 |

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| ID | WBS | Task Name | % Complete | Actual Start | Baseline Start | Actual Finish | Baseline Finish |
|----|--------------|---|------------|--------------------|--------------------|---------------|---------------------|
| 50 | 2.1.5.2 | Conduct workshops/training with Work Control Managers/Coordinators and workers to communicate job change control process and institutional expectations | 0% | NA | Tue 1/2/07 | NA | Fri 2/16/07 |
| 51 | 2.1.6 | Upgrade Work Planning & Control Management System Assessment Plan | 2% | Mon 5/15/06 | Fri 11/3/06 | NA | Mon 12/11/06 |
| 52 | 2.1.6.1 | Define success factors for the WP&C Management System | 0% | NA | Fri 11/3/06 | NA | Thu 11/9/06 |
| 53 | 2.1.6.2 | Define the risks associated with the management system | 0% | NA | Fri 11/3/06 | NA | Thu 11/9/06 |
| 54 | 2.1.6.3 | Identify quantitative measures to track and report management system performance | 0% | NA | Fri 11/10/06 | NA | Mon 11/27/06 |
| 55 | 2.1.6.4 | Incorporate measures into quarterly reporting of management system status as part of Contractor and Corporate Assurance | 5% | Mon 5/15/06 | Tue 11/28/06 | NA | Mon 12/11/06 |
| 56 | 2.1.6.5 | Formalize the role of WCMs quarterly feedback session in management system assessment and improvement planning | 5% | Mon 5/15/06 | Fri 11/17/06 | NA | Mon 11/27/06 |
| 57 | 2.1.6.6 | Update the WP&C Assessment Tool | 0% | NA | Tue 11/28/06 | NA | Mon 12/4/06 |
| 58 | 2.1.7 | Integrate Human Performance Factors Principles into the Work Planning and Control Management System | 10% | Fri 7/21/06 | Thu 7/27/06 | NA | Thu 11/2/06 |
| 59 | 2.1.7.1 | Integrate the "Four Key Questions" into the Pre-Job briefing process | 25% | Fri 7/21/06 | Thu 7/27/06 | NA | Wed 8/30/06 |
| 60 | 2.1.7.2 | Develop an approach to include error precursors in the hazards analysis process | 5% | Mon 7/24/06 | Thu 7/27/06 | NA | Wed 8/30/06 |
| 61 | 2.1.7.3 | Develop and provide longer term recommendations for a more comprehensive integration process to the MS Steward | 0% | NA | Thu 8/31/06 | NA | Thu 10/5/06 |
| 62 | 2.2 | Work Planning and Control Qualification/Training | 23% | Mon 5/1/06 | Mon 5/1/06 | NA | Fri 11/17/06 |
| 63 | 2.2.1 | Upgrade Work Control Manager and Coordinator Training & Qualifications | 44% | Mon 5/1/06 | Mon 5/1/06 | NA | Thu 11/2/06 |
| 64 | 2.2.1.1 | Review Current training & qualifications requirements for Work Control Mangers and Work Control Coordinators | 100% | Mon 5/1/06 | Mon 5/1/06 | Mon 6/12/06 | Mon 6/12/06 |
| 65 | 2.2.1.2 | Revise Existing training and add new requirements as appropriate | 40% | Mon 5/15/06 | Tue 6/13/06 | NA | Thu 8/10/06 |
| 66 | 2.2.1.3 | Develop a schedule for re-qualifying Work Control Managers and Coordinators through training & testing | 0% | NA | Fri 8/11/06 | NA | Fri 9/8/06 |
| 67 | 2.2.1.4 | Update the Work Planning & Control Management System and Subject Areas, and Job Training Assessment (JTA) as applicable | 0% | NA | Tue 10/17/06 | NA | Thu 11/2/06 |
| 68 | 2.2.2 | Revitalize the Training Program for Work Control Managers & Work Control Coordinators | 1% | Mon 5/1/06 | Fri 8/11/06 | NA | Fri 11/17/06 |
| 69 | 2.2.2.1 | Develop a classroom training curriculum that offers scenario-based, or "case study" training | 0% | NA | Fri 8/11/06 | NA | Fri 9/15/06 |
| 70 | 2.2.2.2 | Add to or enhance the following elements of the training program (screening work, preparing work permits, performing job hazard analyses, job walk-down and job review, pre and post-job briefing, & soliciting worker feedback | 0% | NA | Fri 8/18/06 | NA | Fri 9/15/06 |
| 71 | 2.2.2.3 | Upgrade the computer (web) based training to incorporate case studies | 5% | Mon 9/11/06 | Mon 9/18/06 | NA | Fri 10/27/06 |
| 72 | 2.2.2.4 | Institute learning validation through testing | 0% | NA | Mon 10/30/06 | NA | Fri 11/17/06 |
| 73 | 2.2.2.5 | Incorporate training program changes into the Work Planning & Control Management System Description and Subject Areas as applicable | 0% | NA | Fri 10/27/06 | NA | Thu 11/2/06 |

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| 74 | 2.2.2.6 | Incorporate all changes resulting from corrective actions in this plan in the revised WCM/WCC training/re-training as applicable | 0% | NA | Fri 10/27/06 | NA | Fri 11/3/06 |
| 75 | 2.3 | WP&C Management System and Subject Area Revisions/Updates. Includes the process for worker planned work, clarify the role of building managers, flowdown to subcontractors, training, job change control and human performance principles | 5% | Fri 7/28/06 | Mon 11/6/06 | NA | Fri 12/29/06 |
| 76 | 3.0 | Documentation Improvement Initiatives | 37% | Mon 12/12/05 | Mon 5/1/06 | NA | Tue 8/5/08 |
| 77 | 3.1 | Key Programmatic Document Initiatives | 56% | Wed 2/1/06 | Mon 5/1/06 | NA | Fri 1/12/07 |
| 78 | 3.1.1 | Consolidate three ISM Related Management Systems; Upgrade Program Description | 24% | Mon 5/1/06 | Mon 5/1/06 | NA | Fri 1/12/07 |
| 79 | 3.1.1.1 | Consolidate ISM Related Management Systems; Upgrade ISM Program Description | 30% | Mon 5/1/06 | Mon 5/1/06 | NA | Thu 11/16/06 |
| 80 | 3.1.1.2 | Designate a single point of contact for the new management system | 0% | NA | Fri 11/17/06 | NA | Mon 11/27/06 |
| 81 | 3.1.1.3 | Develop a presentation to actively communicate the significant changes resulting from this consolidation | 0% | NA | Tue 11/28/06 | NA | Fri 1/12/07 |
| 82 | 3.1.2 | Incorporate Annual ISM Documentation Review into Lab Planning & Assessment | 0% | NA | Mon 9/25/06 | NA | Sat 9/30/06 |
| 83 | 3.1.3 | Correct specific Procedure Deficiencies from Evaluation of ISM Assessment | 100% | Wed 2/1/06 | Mon 5/1/06 | Fri 8/25/06 | Wed 8/30/06 |
| 84 | 3.1.3.1 | Review Evaluation of ISM Report and capture all references to documentation/procedure deficiencies | 100% | Wed 2/1/06 | Mon 5/1/06 | Fri 5/5/06 | Mon 8/7/06 |
| 85 | 3.1.3.2 | Distribute deficiencies to appropriate management system stewards for correction | 100% | Mon 2/20/06 | Tue 8/8/06 | Fri 6/2/06 | Wed 8/16/06 |
| 86 | 3.1.3.3 | Submit Notice of Intent (NOI) to the SBMS Office for incorporation into the SBMS Completion Project | 100% | Fri 6/30/06 | Thu 8/17/06 | Fri 8/25/06 | Thu 8/31/06 |
| 87 | 3.1.4 | Realign Management System Steward Reporting Structure | 100% | Mon 5/1/06 | Mon 5/1/06 | Fri 7/28/06 | Tue 8/1/06 |
| 88 | 3.1.4.1 | Revise appropriate SBMS documentation to reflect new reporting relationship | 100% | Mon 5/1/06 | Mon 5/1/06 | Fri 7/28/06 | Tue 8/1/06 |
| 89 | 3.1.4.2 | Brief Laboratory Director and Deputy Director for Science on their new responsibilities | 100% | Fri 7/21/06 | Thu 7/27/06 | Fri 7/28/06 | Fri 7/28/06 |
| 90 | 3.1.4.3 | Deliver to the HR Management System Steward/Point of Contact additional R2A2 responsibilities for Lab Director, DDO, DDS and MSS's | 100% | Mon 7/24/06 | Mon 7/31/06 | Fri 7/28/06 | Tue 8/1/06 |
| 91 | 3.1.5 | Roll- up Roles and Responsibilities to Management System Level; Include Management System Stewards and Points of Contact | 63% | Wed 5/3/06 | Mon 5/22/06 | NA | Wed 11/1/06 |
| 92 | 3.1.5.1 | Revise SBMS Document guidelines to incorporate a requirement that all roles and responsibilities in any management system documents be summarized in the management system description | 100% | Wed 5/3/06 | Fri 9/29/06 | Fri 9/1/06 | Thu 10/26/06 |
| 93 | 3.1.5.2 | Search all SBMS documents to identify all such roles and responsibilities | 95% | Thu 6/1/06 | Mon 5/22/06 | NA | Wed 8/2/06 |
| 94 | 3.1.5.3 | Update management system descriptions as appropriate | 10% | Wed 7/5/06 | Mon 8/7/06 | NA | Fri 8/25/06 |
| 95 | 3.1.5.4 | Summarize management system responsibilities by position | 95% | Thu 6/1/06 | Mon 8/28/06 | NA | Thu 9/28/06 |
| 96 | 3.1.5.5 | Deliver to the Human Resources Management System Steward/POC for incorporation of responsibilities in MSS and Point of Contact R2A2s | 5% | Fri 8/11/06 | Fri 9/29/06 | NA | Wed 11/1/06 |
| 97 | 3.2 | Requirements Management Implementation | 28% | Mon 12/12/05 | Mon 5/1/06 | NA | Fri 8/15/08 |
| 98 | 3.2.1 | Complete the SBMS Requirements Verification | 31% | Mon 12/12/05 | Mon 5/1/06 | NA | Fri 8/15/08 |

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| 99 | 3.2.1.1 | Develop software tools to facilitate and document the requirements management process requirements management | 85% | Mon 12/12/05 | Mon 5/1/06 | NA | Mon 1/22/07 |
| 100 | 3.2.1.2 | Pilot the requirements management process and prepare guidelines for management system stewards | 3% | Mon 5/1/06 | Mon 5/1/06 | NA | Tue 5/1/07 |
| 101 | 3.2.1.3 | Bin management systems into four phases based on institutional risk impact | 100% | Mon 5/15/06 | Wed 5/2/07 | Fri 5/4/07 | Tue 10/16/07 |
| 102 | 3.2.1.4 | Train management system stewards in the requirements management tools and processes | 100% | Fri 5/4/07 | Wed 10/17/07 | Fri 6/15/07 | Tue 11/27/07 |
| 103 | 3.2.1.5 | Execute the requirements process in phases based on the binning activity | 9% | Mon 5/15/06 | Wed 10/17/07 | NA | Tue 5/27/08 |
| 104 | 3.2.1.6 | Publish revised SBMS Documents as applicable | 0% | NA | Wed 5/28/08 | NA | Fri 8/15/08 |
| 105 | 3.2.2 | Re-baseline and Finish the SBMS Completion Project | 14% | Fri 5/26/06 | Thu 6/1/06 | NA | Sat 12/30/06 |
| 106 | 3.2.2.1 | Update the SBMS Completion Project Scope, responsibilities, and schedules | 58% | Fri 5/26/06 | Thu 6/1/06 | NA | Fri 8/18/06 |
| 107 | 3.2.2.2 | Secure commitment of contributed and/or incremental resources | 0% | NA | Tue 8/22/06 | NA | Fri 10/20/06 |
| 108 | 3.2.2.3 | Implement the SBMS Completion Project in accordance with the approved plan | 0% | NA | Mon 8/21/06 | NA | Sat 12/30/06 |
| 109 | 4.0 | Communication & Involvement Initiatives | 62% | Wed 3/1/06 | Mon 5/1/06 | NA | Mon 1/8/07 |
| 110 | 4.1 | New / Revised Document Communications | 62% | Wed 3/1/06 | Mon 5/1/06 | NA | Mon 1/8/07 |
| 111 | 4.1.1 | Communicate Revisions and Work Control Requirements | 0% | NA | Wed 12/6/06 | NA | Mon 1/8/07 |
| 112 | 4.1.2 | ISM Web Based Training and Laboratory Communications | 100% | Wed 3/1/06 | Mon 5/1/06 | Fri 8/18/06 | Mon 8/28/06 |
| 113 | 4.1.3 | Operations Forum Evaluation / Implementation | 76% | Wed 3/1/06 | Wed 6/28/06 | NA | Thu 2/15/07 |
| 114 | 4.1.4 | Worker Safety and Health / ISM Consolidated Management System | 1% | Tue 8/1/06 | Mon 11/6/06 | NA | Tue 12/5/06 |
| 115 | 4.1.5 | Barrier Analysis & Five Whys Causal Analyses workshops | 50% | Mon 7/31/06 | Tue 8/1/06 | NA | Fri 12/29/06 |
| 116 | 4.1.6 | Human Performance Strategy Development & Implementation | 30% | Mon 8/21/06 | Mon 8/28/06 | NA | Fri 10/27/06 |
| 117 | 5.0 | Collider Accelerator Arc Flash Type B Incident | 48% | Mon 5/1/06 | Mon 5/1/06 | NA | Mon 4/30/07 |
| 118 | 5.1 | DOE Type B Team Interim Recommendations | 51% | Mon 5/1/06 | Mon 5/1/06 | NA | Mon 4/30/07 |
| 119 | 5.1.1 | Doe Team Interim Recommendation #1 -- Dress for Hazard Category for 480v circuit breaker and switch operation. Interim action to remain in place until Laboratory actions are completed. | 100% | Mon 5/1/06 | Mon 5/1/06 | Mon 7/24/06 | Thu 9/28/06 |
| 120 | 5.1.1.1 | Lab Action #1 Review the NFPA 70E standards and review their adequacy for personal protective equipment | 100% | Mon 5/1/06 | Mon 5/1/06 | Fri 7/7/06 | Thu 9/7/06 |
| 121 | 5.1.1.2 | Lab action #2 Upgrade the Laboratory Electrical Safety Standards to better address arc flash personal protective equipment | 100% | Mon 5/1/06 | Mon 5/1/06 | Fri 7/21/06 | Thu 9/7/06 |
| 122 | 5.1.1.3 | Publish upgraded standard in SBMS or local procedures as appropriate | 100% | Fri 7/7/06 | Fri 9/8/06 | Mon 7/24/06 | Thu 9/28/06 |
| 123 | 5.1.2 | DOE Team Interim Recommendation #2 -- Review the practice of racking circuit breakers with bus energized or inserting/removing MCC starter buckets while MCC is energized | 53% | Mon 5/1/06 | Mon 5/1/06 | NA | Fri 7/28/06 |
| 124 | 5.1.2.1 | Lab Action #1 Review current procedures to evaluate whether the practice of racking circuit breakers into live bus should be continued | 100% | Mon 5/1/06 | Mon 5/1/06 | Mon 7/24/06 | Fri 6/16/06 |

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| 125 | 5.1.2.2 | Lab Action #2 Benchmark practices for MCC bucket insertion/removal with other Laboratory Electrical Safety Standards | 100% | Mon 5/22/06 | Mon 6/5/06 | Mon 7/24/06 | Fri 6/16/06 |
| 126 | 5.1.2.3 | Lab Action #3 Modify lab procedures and publish in SBMS and/or local procedures to include requirements for Live bus operations | 0% | NA | Fri 9/1/06 | NA | Fri 12/1/06 |
| 127 | 5.1.2.4 | Lab Action #4 Train/Communicate Laboratory electrical workers in the updated procedures | 0% | NA | Fri 12/1/06 | NA | Fri 12/22/06 |
| 128 | 5.1.3 | DOE Team Interim Recommendation #3 -- Activate/Install ground fault detection systems | 13% | Mon 7/24/06 | Mon 5/1/06 | NA | Mon 4/30/07 |
| 129 | 5.1.3.1 | Lab Action #1 Review the status of ground fault indicating relays to verify that they are appropriately set and connected to an alarm monitoring system | 100% | Mon 7/24/06 | Mon 5/1/06 | Fri 8/25/06 | Thu 9/21/06 |
| 130 | 5.1.3.2 | Lab Action #2 Install/correct/connect relays as needed | 40% | Mon 7/24/06 | Fri 9/22/06 | NA | Tue 3/13/07 |
| 131 | 5.1.3.3 | Lab Action #3 Develop/Review procedures for responding to ground fault conditions | 0% | NA | Fri 9/22/06 | NA | Thu 10/19/06 |
| 132 | 5.1.3.4 | Lab Action #4 Modify the Laboratory Electrical Safety Standards, if applicable | 0% | NA | Wed 3/14/07 | NA | Mon 4/30/07 |
| 133 | 5.1.3.5 | Train the Laboratory's electrical workers in updated procedures | 0% | NA | Tue 4/24/07 | NA | Fri 6/8/07 |
| 134 | 5.1.4 | DOE Team Interim Recommendation #4 -- Install systems to minimize voltage transients on undergrounded (floating delta) systems | 83% | Mon 5/1/06 | Mon 5/1/06 | NA | Thu 9/7/06 |
| 135 | 5.1.4.1 | Lab Action #1 Conduct further electrical and mechanical forensic analysis to confirm the DOE Team's theory of what caused the arc flash event | 100% | Mon 5/1/06 | Mon 5/1/06 | Wed 7/12/06 | Fri 6/2/06 |
| 136 | 5.1.4.2 | Lab Action #2 Design protection systems based on a full understanding of the technical cause | 100% | Thu 7/6/06 | Mon 6/5/06 | Wed 7/26/06 | Fri 6/23/06 |
| 137 | 5.1.4.3 | Lab Action #3 Develop a plan for installing systems (a revised completion date for completion of electrical installation will be provided upon plan completion) | 75% | Mon 5/1/06 | Mon 5/1/06 | NA | Thu 9/7/06 |
| 138 | 5.1.5 | DOE Team Interim Recommendation #5 -- Develop and implement a project plan for incident energy calculations | 70% | Mon 5/1/06 | Mon 5/1/06 | NA | Wed 7/26/06 |
| 139 | 5.1.5.1 | Lab Action #1 Develop a project Plan for remaining calculation of the arc flash's incident energy calculations | 100% | Mon 5/1/06 | Mon 5/1/06 | Mon 7/24/06 | Fri 6/23/06 |
| 140 | 5.1.5.2 | Lab Action #2 Implement the plan - (A revised completion date for completion of incident calculations will be provided upon completion of the plan) | 20% | Fri 7/7/06 | Mon 6/26/06 | NA | Wed 7/26/06 |
| 141 | 5.1.6 | DOE Team Interim Recommendation #6 -- Assure that Personal Protective Equipment Is Worn Properly | 20% | Mon 5/1/06 | Mon 5/1/06 | NA | Fri 9/29/06 |
| 142 | 5.1.6.1 | Lab Action #1 Review current practices for use of personal protective equipment | 44% | Mon 5/1/06 | Mon 5/1/06 | NA | Fri 6/30/06 |
| 143 | 5.1.6.2 | Lab Action #2 Include the wearing of PPE wear as an item in upcoming negotiations with the IBEW | 100% | Mon 6/12/06 | Thu 7/6/06 | Tue 6/13/06 | Mon 7/10/06 |
| 144 | 5.1.6.3 | Lab Action #3 Develop an assurance plan for the uniform Laboratory standard and practice on wearing of PPE | 0% | NA | Thu 7/6/06 | NA | Fri 9/29/06 |
| 145 | 5.2 | BNL Arc Flash Corrective Actions | 39% | Mon 5/8/06 | Mon 5/15/06 | NA | Mon 11/20/06 |
| 146 | 5.2.1 | Human Performance -Based Accident Investigation | 100% | Mon 5/8/06 | Mon 5/15/06 | Tue 5/23/06 | Wed 5/31/06 |
| 147 | 5.2.2 | Electrical Safety Assessment | 10% | Thu 8/31/06 | Wed 6/28/06 | NA | Mon 11/20/06 |

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| 148 | 5.2.3 | Electrical Safety Effectiveness Review | 85% | Mon 9/11/06 | Wed 6/28/06 | NA | Fri 8/25/06 |
| 149 | 5.2.4 | Lessons Learned Review | 100% | Mon 5/29/06 | Mon 8/28/06 | Wed 1/10/07 | Fri 9/1/06 |
| 150 | 6.0 | Ongoing Action Plan Tracking/Follow-Up | 62% | Wed 3/1/06 | Mon 5/1/06 | NA | Fri 12/28/07 |
| 151 | 6.1 | OSHA Assessment Action Plan | 100% | Mon 5/1/06 | Mon 5/1/06 | Fri 5/12/06 | Fri 7/28/06 |
| 152 | 6.2 | Material Handling & Rigging Plan (ATS 1948) | 85% | Mon 5/15/06 | Mon 3/5/07 | NA | Fri 4/27/07 |
| 153 | 6.3 | Industrial Hygiene Plan (ATS 2823) | 60% | Wed 3/1/06 | Wed 5/24/06 | NA | Thu 2/15/07 |
| 154 | 6.4 | Electrical Safety Action Plan (ATS 2725) | 60% | Mon 5/1/06 | Mon 6/18/07 | NA | Fri 12/28/07 |
| 155 | 6.5 | Authority Having Jurisdiction (AHJ) Nationally Recognized Testing Laboratory (NTRL) Action Plan | 40% | Mon 5/15/06 | Mon 5/14/07 | NA | Sun 9/30/07 |
| 156 | 6.6 | Inadequate Control of Procedures (ATS 2935) | 95% | Wed 3/1/06 | Wed 7/12/06 | NA | Sun 4/1/07 |
| 157 | 7.0 | Evaluation of ISM Recommendations & Improvement Initiatives | 56% | Wed 3/1/06 | Mon 5/1/06 | NA | Tue 2/13/07 |
| 158 | 7.1 | Evaluation of ISM Recommendations/Opportunities for Improvement | 62% | Wed 3/1/06 | Mon 5/1/06 | NA | Fri 12/29/06 |
| 159 | 7.1.1 | Radiological Protection Plan Revision | 100% | Wed 3/1/06 | Tue 8/1/06 | Mon 9/18/06 | Fri 9/29/06 |
| 160 | 7.1.1.1 | Revise the RPP scope statement to clarify the requirements of 10CFR835 for off-site radiological work | 100% | Mon 5/15/06 | Tue 8/1/06 | Fri 9/15/06 | Tue 9/19/06 |
| 161 | 7.1.1.2 | Communicate RPP requirements to applicable Managers & Staff | 100% | Wed 9/6/06 | Wed 9/20/06 | Mon 9/18/06 | Fri 9/29/06 |
| 162 | 7.1.2 | Radiological Awareness Report (RAR) Performance Expectations | 100% | Wed 3/1/06 | Tue 8/1/06 | Fri 3/31/06 | Thu 8/3/06 |
| 163 | 7.1.3 | Waste Management Representative Support Services Evaluation | 100% | Wed 3/1/06 | Tue 8/1/06 | Tue 4/25/06 | Tue 9/26/06 |
| 164 | 7.1.4 | Life Sciences Safety Culture/Performance Expectations | 100% | Wed 3/1/06 | Tue 8/1/06 | Fri 3/31/06 | Mon 8/14/06 |
| 165 | 7.1.5 | Conduct of Operations Evaluation and Implementation | 48% | Wed 3/1/06 | Mon 5/1/06 | NA | Mon 11/6/06 |
| 166 | 7.1.5.1 | Facilities & Operations Directorate perform an extent of condition review to determine if conduct of operation noncompliance exists across operational facilities | 85% | Mon 5/1/06 | Mon 5/1/06 | NA | Wed 7/12/06 |
| 167 | 7.1.5.2 | Internal Audit and Oversight perform an effectiveness review of all corrective actions for the findings from the August 2003 IO Assessment | 0% | NA | Mon 9/4/06 | NA | Mon 11/6/06 |
| 168 | 7.1.5.3 | Review/Update existing F&O Directorate Conduct of Operations Program | 100% | Wed 3/1/06 | Thu 7/13/06 | Wed 9/20/06 | Wed 8/23/06 |
| 169 | 7.1.5.4 | Provide awareness training to applicable F&O staff on conduct of operations principles, program revisions, and management expectations | 10% | Thu 8/24/06 | Thu 8/24/06 | NA | Thu 9/21/06 |
| 170 | 7.1.6 | Nuclear Safety Authorization / Readiness | 59% | Mon 4/3/06 | Mon 7/3/06 | NA | Wed 11/29/06 |
| 171 | 7.1.6.1 | Perform a verification of implementation and compliance with 10CFR830, Subpart B Nuclear Safety Management | 100% | Mon 4/3/06 | Mon 7/3/06 | Fri 7/7/06 | Thu 9/28/06 |
| 172 | 7.1.6.2 | Perform an assessment of documented safety bases or pertinent exclusions/Exemptions | 30% | Mon 8/14/06 | Fri 9/29/06 | NA | Thu 11/9/06 |
| 173 | 7.1.6.3 | Provide Unreviewed Safety Question determination training to managers and staff responsible for nuclear facilities | 100% | Thu 7/6/06 | Thu 7/6/06 | Fri 7/28/06 | Mon 7/10/06 |
| 174 | 7.1.6.4 | Conduct an external assessment to independently verify Essential Safety System Functionality | 5% | Mon 8/7/06 | Fri 11/10/06 | NA | Wed 11/29/06 |
| 175 | 7.1.6.5 | Update the Natural Phenomena Hazard (NPH) Design Document | 0% | NA | Mon 9/11/06 | NA | Fri 10/6/06 |

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| 176 | 7.1.7 | Operating Experience / Lessons Learned Initiatives | 52% | Mon 5/15/06 | Tue 5/30/06 | NA | Fri 12/29/06 |
| 177 | 7.1.7.1 | Expand distribution of published lessons learned communications to include Level 1 and Level 2 managers, ES&H Coordinators, WCMs, and Safety & Health Services personnel | 100% | Mon 5/15/06 | Tue 5/30/06 | Wed 5/31/06 | Fri 6/16/06 |
| 178 | 7.1.7.2 | Commence tracking & trending feedback received on each published Lessons Learned Communication | 100% | Mon 6/19/06 | Mon 6/26/06 | Fri 8/18/06 | Wed 8/9/06 |
| 179 | 7.1.7.3 | Initiate a Bi-Annual Lessons Learned Coordinators workshop to prompt feedback, evaluate, and improve the BNL LL program | 0% | NA | Wed 12/6/06 | NA | Fri 12/29/06 |
| 180 | 7.1.8 | Construction Safety Subject Area review/Update | 25% | Mon 3/27/06 | Mon 6/12/06 | NA | Thu 9/28/06 |
| 181 | 7.1.8.1 | Perform a comprehensive review of the construction safety subject area, and incorporate improvements and new requirements | 25% | Mon 3/27/06 | Mon 6/12/06 | NA | Thu 9/28/06 |
| 182 | 7.2 | Worker Safety & Health Program Implementation | 35% | Mon 5/1/06 | Mon 5/1/06 | NA | Tue 2/13/07 |
| 183 | 7.2.1 | Worker Safety & Health Rule Implementation | 39% | Mon 5/1/06 | Mon 5/1/06 | NA | Mon 12/4/06 |
| 184 | 7.2.2 | Development of Field Validation Criterion | 25% | Mon 5/1/06 | Mon 5/1/06 | NA | Mon 12/4/06 |
| 185 | 7.2.3 | Investigation/Causal Analysis and Corrective Actions | 50% | Mon 5/1/06 | Mon 5/1/06 | NA | Mon 12/4/06 |
| 186 | 7.2.4 | Worker Safety & Health Elements in Place & Program Expectations Communicated | 0% | NA | Tue 12/5/06 | NA | Tue 2/13/07 |
| 187 | 7.3 | Safety Improvement Initiatives | 71% | Fri 3/31/06 | Wed 5/3/06 | NA | Fri 12/29/06 |
| 188 | 7.3.1 | Excellence in ESS&H Strategic Focus Area | 90% | Tue 5/9/06 | Tue 5/9/06 | NA | Sat 9/30/06 |
| 189 | 7.3.2 | Safety Observation Training for Managers and Supervisors | 80% | Tue 5/9/06 | Tue 5/9/06 | NA | Thu 11/2/06 |
| 190 | 7.3.3 | OHSAS Registration Phase 3 Completion | 75% | Fri 3/31/06 | Wed 5/3/06 | NA | Fri 12/29/06 |
| 191 | 7.3.4 | Employee Concerns Program Evaluation | 0% | NA | Wed 2/21/07 | NA | Wed 2/28/07 |
| 192 | 7.3.5 | Executive Management Training Program | 35% | Tue 8/1/06 | Tue 8/1/06 | NA | Mon 1/1/07 |
| 193 | 7.3.6 | Electronic Delivery of Experimental Safety Review Forms Evaluation | 0% | NA | Tue 1/2/07 | NA | Tue 4/10/07 |
| 194 | 7.3.7 | Effectiveness of Off-Site Integrated Safety Management | 0% | NA | Mon 1/1/07 | NA | Thu 3/1/07 |
| 195 | 7.3.8 | Institutional Safety Committees Reporting Structure Review | 75% | Fri 8/18/06 | Mon 8/21/06 | NA | Fri 10/27/06 |
| 196 | 7.3.9 | Feedback & Improvement, and WP&C Follow-Up Review | 25% | Fri 9/15/06 | Fri 9/1/06 | NA | Fri 10/27/06 |
| 197 | 8.0 | Project Management and Support | 39% | Mon 5/1/06 | Mon 5/15/06 | NA | Tue 8/19/08 |
| 198 | 8.1 | Consulting Services & Subject Matter Experts | 40% | Mon 5/1/06 | Mon 10/2/06 | NA | Fri 7/27/07 |
| 199 | 8.2 | Administration and ISM Workshops | 40% | Mon 5/1/06 | Mon 5/15/06 | NA | Tue 9/18/07 |
| 200 | 8.3 | ISM/Safety Improvement Project Closeout | 0% | NA | Wed 8/6/08 | NA | Tue 8/19/08 |